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L. FOSSEE & J. A. BALLARD.

WATER MOTOR.

APPLICATION FILED OCT. 9, 1907.

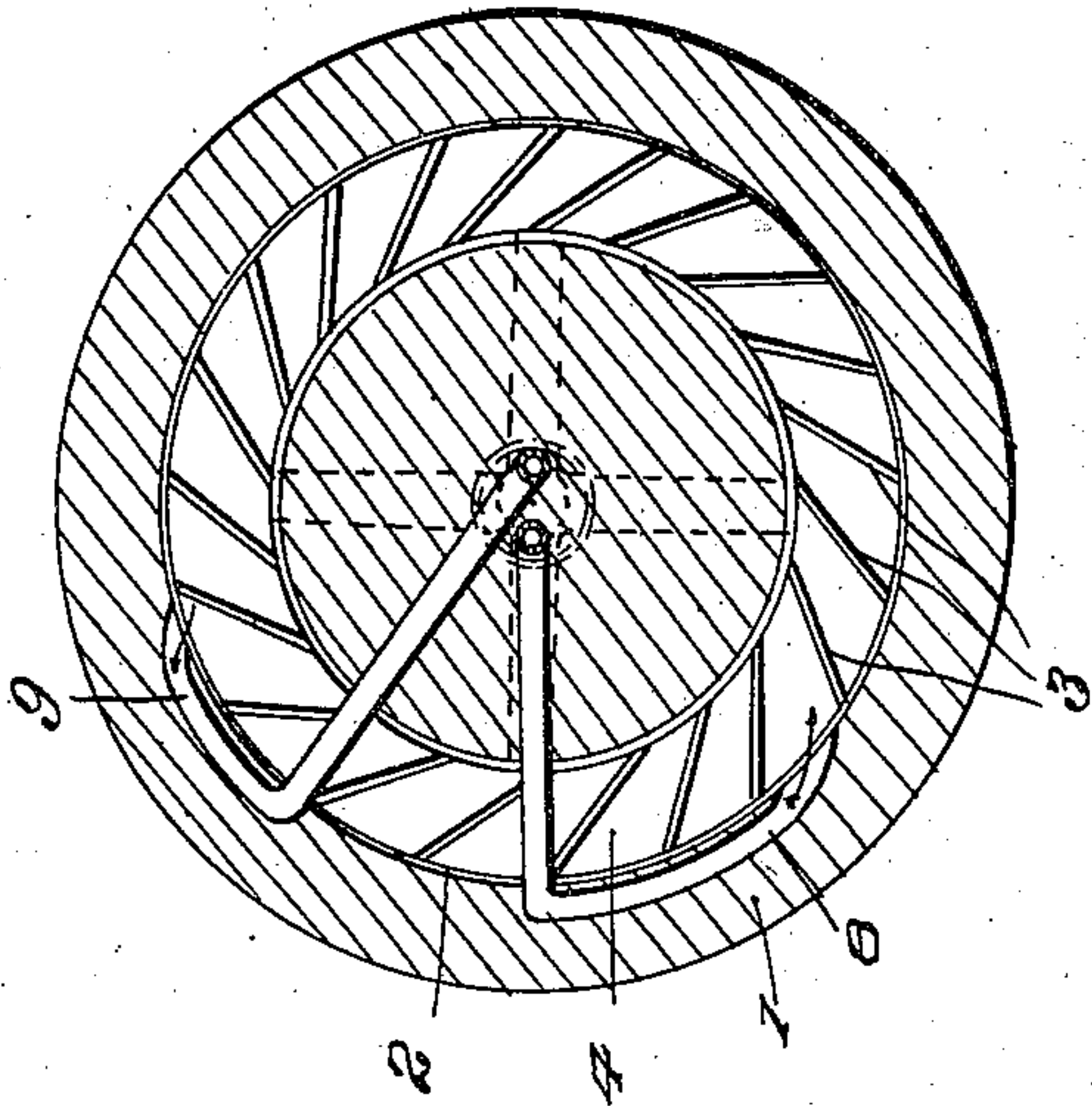


Fig. 2.

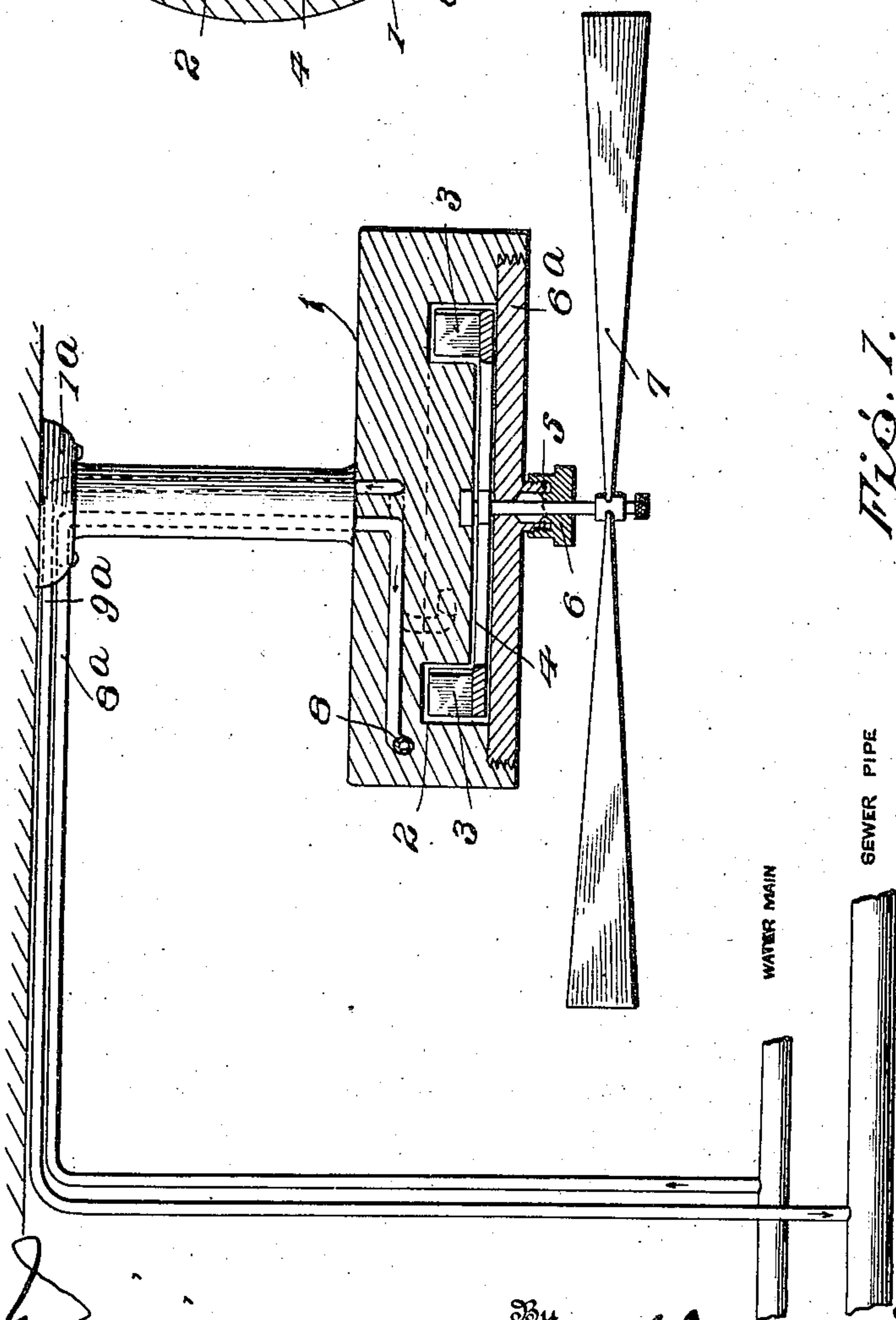


Fig. 1.

Witnesses

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UNITED STATES PATENT OFFICE.

LEWIS FOSSEE AND JOHN A. BALLARD, OF JEFFERSONVILLE, INDIANA.

WATER-MOTOR.

No. 896,289.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, LEWIS FOSSEE and JOHN A. BALLARD, citizens of the United States, residing at Jeffersonville, in the county of Clark and State of Indiana, have invented certain new and useful Improvements in Water-Motors, of which the following is a specification.

This invention contemplates certain new and useful improvements in water motors, the present embodiment being arranged to operate a ceiling fan.

The invention has for its object an improved construction of device of this character which may be cheaply made and easily installed and which is composed of comparatively few and simple parts that will be durable and not liable to get out of order, and the invention consists in certain constructions and arrangement of the parts that we will hereinafter fully describe and claim.

For a full understanding of the invention reference is to be had to the following description and accompanying drawings, in which.

Figure 1 is a sectional side elevation of one form or embodiment of our invention. Fig. 2 is a horizontal sectional view through the case.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings and now particularly to Fig. 1 wherein is illustrated our invention in simplest form, that is, with a single motor, numeral 1 designates the casing of the motor which is preferably pendent from the ceiling of a room being suspended from the hollow hanger 1^a. The casing 1 is formed with an annular chamber 2 in which a series of preferably inclined blades 3 are mounted to travel, said blades being carried on or formed integral with the water wheel 4 or disk 4 mounted within the casing to turn about a vertical axis. 5 designates the shaft of said water wheel which extends downwardly and outwardly from a stuffing box 6 secured to or formed with a cap plate 6^a designed to be screwed or otherwise secured to the casing and preferably abutting against the water wheel 4 so as to hold the same removably in place. In order to disassemble the parts it is only necessary to unscrew the cap plate whereupon the water wheel may be readily detached. In the present in-

stance we have illustrated our invention as arranged to drive a ceiling fan, 7 designating the paddles or blades of the fan secured in any desired way to the shaft 5, as clearly illustrated in the drawings.

The casing 1 is formed with an inlet passage 8 which enters the casing near the center thereof and which is provided with a preferably flared mouth opening into the circle of the blades 3 so as to revolve the blades 3 and the casing is also formed with an outlet passage 9 opening therefrom near the center and designed to allow the water to escape from the casing after having acted upon the blades 3 and revolve the disk 4, the pipes 8^a and 9^a leading to and from the respective inlet and outlet passages 8 and 9. These pipes extend through the hollow hanger 1^a, the pipe 8^a being connected in any desired way to the water main and the exhaust or outlet pipe 9^a being connected to another pipe after it has acted upon the motor.

Where a series of our water motors is employed, the arrangement is such as that illustrated in Fig. 3 wherein it will be seen that the outlet or exhaust pipe 12 of the first motor in the series constitutes the inlet pipe of the next motor and so on, so that after the water shall have acted upon the wind wheel of the first motor it may be conveyed to the next motor in the series and drive the wind wheel thereof, before being permitted to escape into the sewer pipe.

From the foregoing description in connection with the accompanying drawings it will be seen that we have provided a very simple and efficient construction of water motor which may be readily installed and from which the water wheel may be removed by merely unscrewing the cap plate 6^a thereof to obtain access to the interior of the casing for the purpose of repair or the like.

Having thus described the invention, what is claimed as new is:

A water motor for the purpose described, comprising a pendent hollow hanger, inlet and outlet pipes extending through said hanger, a casing secured at its center to said hanger and suspended thereby, said casing being formed with an annular downwardly opening chamber and with water inlet and outlet passages communicating with said chamber, said passages, respectively opening into and out of the casing at the center thereof and communicating respectively with the water inlet and outlet pipes mounted in said

hanger, a series of blades mounted in said chamber, a disk to which said blades are secured, a bottom cap plate secured detachably to said casing and closing the said chamber thereof, said plate supporting the disk within the casing, and a driving shaft secured to said disk and extending out through the cap plate.

In testimony whereof we affix our signatures in presence of two witnesses.

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